



## AYA Integrated Math-STEM Option (530702BA)

The following information has official approval of the **BCAS LeBron James Family Foundation (LBJFF) School of Education**; it is intended only as a supplemental guide. Official degree requirements are established at the time of admission to the School. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.* The transfer process is completed through an appointment with your Academic Advisor.

General Education courses are required for all majors. Unless a course is specified, refer to the General Education website: <https://www.uakron.edu/general-education/> OR your Degree Progress Report (DPR) for course options.

**\*Preadmission Courses** – Completion of these courses (\*) is required for admission into the School of Education. A minimum 2.5 GPA is required in the preadmission coursework and a **cumulative GPA** of 2.5, **including transfer work**, is required for admission. **Students must be admitted into the School of Education in order to take many of the Professional Education, Literacy Core, and Content Specific courses.**

### CURRICULUM GUIDE FOR STUDENTS ADMITTED TO THIS PROGRAM FOR FALL 2017 OR LATER

1 <sup>st</sup> Year	Fall Semester	Credit Hours	Prerequisites
*ENGL 111	English Composition I Requirement (Note a)	3	Appropriate placement by advisor
*MATH 221	Analytic Geometry-Calculus I (Note d)	4	Appropriate placement by advisor; MATH 149 with C- or better grade
*COMM 105 OR *COMM 263	Introduction to Public Speaking OR Prof. Comm. & Presentation	3	
MATH 208	Intro to Discrete Math (Note f)	4	Completion of MATH 145 or MATH 149 with a grade of C- or better or placement
*	Gen Ed Social Science/DD tag (Note c)	3	
<b>Total</b>		<b>17</b>	

1 <sup>st</sup> Year	Spring Semester	Credit Hours	Prerequisites
*ENGL 112	English Composition II Requirement (Note a)	3	ENGL 111 or equivalent with grade C or higher
MATH 222	Analytical Geometry-Calculus II (Note f)	4	MATH 221 with grade of C-or higher
*	Gen Ed Natural Science (Note b)	3	
*	Gen Ed Social Science/GD tag (Note c)	3	
	Gen Ed Humanities	3	
<b>Total</b>		<b>16</b>	

2 <sup>nd</sup> Year		Fall Semester	Credit Hours	Prerequisites
EDFN 200	Introduction to Education	3	13-15 sem. hrs. of specific GenEd courses; FBI/BCI background checks	
EDSE 100	Orientation: AYA/P-12/Multi-Age	0	admission to the School of Education; Coreq: EDFN 200	
MATH 223	Analytical Geometry-Calculus III (Note f)	4	MATH 222 with grade C- or higher	
*PHYS 291	Elementary Classical Physics I/Lab (Note b)	4	MATH 221 with grade C- or higher	
	Gen Ed Arts	3		
<b>Total</b>		<b>14</b>		

2 <sup>nd</sup> Year		Spring Semester	Credit Hours	Prerequisites
EDFN 220	Educational Psychology	3	13-15 sem. hrs. of specific GenEd courses; EDFN 200 (may be taken as prerequisite or corequisite)	
EDIS 225	Intro to Exceptionalities	3	13-15 sem. hrs. of specific GenEd courses; EDFN 200 (may be taken as prerequisite or corequisite)	
MATH 312	Linear Algebra (Note f)	3	MATH 223 with grade C- or higher	
CPSC 200 OR CPSC 209	Programming for Data Science (Note f) OR Computer Science I	4	Prerequisite MATH 145 or MATH 149	
	Gen Ed Arts or Humanities	3		
<b>Total</b>		<b>16</b>		

3 <sup>rd</sup> Year		Fall Semester	Credit Hours	Prerequisites
EDCI 308	Instructional Design and Assessment	6	EDFN 220 and EDIS 225	
STAT 461	Applied Statistics I (Note f)	4	MATH 222	
MATH 401	History of Math (Note f)	3	<b>SPRING ONLY</b> ; MATH 208 with grade B or higher	
EDCI 223	Urban Youth Mentoring (recommended, CI tag)	3		
<b>Total</b>		<b>16</b>		

3 <sup>rd</sup> Year		Spring Semester	Credit Hours	Prerequisites
EDSE 320	Intro to Teaching Content Area	3	<b>SPRING ONLY</b> ; EDCI 308	
EDCI 440	Literacy in the Content Area	3	EDCI 308	
EDCI 439	Engineering for Educators (Note f)	3	EDCI 308	
	General Elective or Gen Ed	3		
	General Elective or Gen Ed	3		
<b>Total</b>		<b>15</b>		

4 <sup>th</sup> Year		Fall Semester	Credit Hours	Prerequisites
EDSE 420	Instructional Techniques I in Secondary Ed	3	EDCI 308; Corequisite: EDSE 430 ( <b>FALL ONLY semester prior to Student Teaching</b> )	
EDSE 430	Clinical Teaching I	3	EDCI 308; Corequisite: EDSE 420 ( <b>FALL ONLY semester prior to Student Teaching</b> )	
MATH 441	Concepts in Geometry (Note f)	4	<b>FALL ONLY</b> ; MATH 208 with grade B or higher;	
	General Elective or Gen Ed	3		
	General Elective or Gen Ed	3		
<b>Total</b>		<b>16</b>	<b>Apply for Student Teaching &amp; Graduation Take OAE Exam #027</b>	

4 <sup>th</sup> Year	Spring Semester	Credit Hours	Prerequisites
EDSE 421	Instructional Techniques II	3	EDSE 420 & EDSE 430; Corequisite: EDSE 431
EDSE 431	Clinical Teaching II	3	EDSE 420 & EDSE 430. Corequisite: EDSE 421
EDSE 495	Student Teaching (note e)	6	This is full-time teaching; no other courses permitted this semester. Approval of the Student Teaching Committee considered based upon approved application to student teaching, and passing state licensure exam(s). Planned teaching experience in schools selected and supervised by the Office of Field Experiences.
<b>Total</b>		<b>12</b>	

	<b>Minimum Credits for Degree</b>	<b>122</b>	
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**ALERT:**  
 1) By the end of your first 48 credit hours attempted, you must have completed your General Education English, Math, and Communications (Speech) requirements;  
 2) By the end of your first 48 credit hours attempted, you must have declared a major and transferred to (been accepted by) a degree granting college at The University of Akron.

Pre-admission Advisors: <https://www.uakron.edu/education/current-students/preadmission-advising>

Faculty Advisor for program: Dr. Lynne Pachnowski, [Imp@uakron.edu](mailto:Imp@uakron.edu)

Also see the School of Education website: <https://www.uakron.edu/education/>

**NOTES:**

- a. **English Comp I (ENGL 111) and English Comp II (ENGL 112)** are the recommended classes to the meet the General Education Writing requirement. English (2020:121) can be used to fulfill the English Composition I requirement and Technical Report Writing (ENGL 222) can be used to fulfill the English Composition II requirement. C or higher grade required for admission to the School.
- b. **Natural Science Requirement:** Seven credits of Natural Science are **required for general education and preadmission**. One course **must** include a lab section. While a variety of science courses are offered, 7 credits are required. Elementary Classical Physics I/lab is a teaching field content course and also meets part of the Gen Ed natural science (lab) requirement.
- c. **Social Science Requirement:** 6 credits of Social Science are required for General Education and preadmission. Many Social Science courses are required for the program and will double-dip for GenEd and preadmission. See DPR for course choices.
- d. **Placement for a Math/Stats/Logic course is determined through academic advisor.** Eligibility for math courses is determined via placement test score, ACT and/or SAT-R scores, AP scores, or prior college level courses.
- e. The Student Teaching experience is considered full time teaching and is to be taken in the last semester of the program. Due to the nature of this experience students are not permitted to take other courses other than what is recommended in the last semester as listed above. Students must apply to student teach the **semester prior** to student teaching and should see the Director of Student Teaching regarding the experience. Dates and details can be found at: <https://www.uakron.edu/education/student-teaching/>
- f. Several math courses may be selected for content area; see: <https://bulletin.uakron.edu/undergraduate/colleges-programs/arts-sciences/education/integrated->

[mathematics-ba/#requirementstext](#). Note that many of these courses may have prerequisites/corequisites and may not be offered every semester. Students may take 40 credits of Teaching Field Content Area courses in the STEM Option OR may take 40 credits of Teaching Field Content Area courses in the THEORETICAL Option. Courses in this program automatically qualify for a minor in mathematics. Contact the BCAS Advising Office for the form to add a minor.

**Course substitutions or waivers may only be approved by the faculty advisor for this program.**

**FBI/BCI:** Certain education courses require BCI and FBI background checks which are used by area schools for placement made during the day. The Ohio Department of Education maintains a list of criminal convictions that disqualify applicants for a state educator license.

Please review: <https://www.uakron.edu/education/student-teaching/fbi.dot>

**Ohio Assessments for Educators and edTPA:** For state of Ohio Teacher Licensure, candidates must pass all required state examinations. See faculty advisor for additional information or review the following:

<https://www.uakron.edu/education/current-students/licensure/>

**Ohio Assessment for Educators:**

**Prior to Student Teaching** - #27 AYA Math Content

**During or After Student Teaching** - #3 – Professional Ed. Knowledge or completion of edTPA

**TRANSFER TO THE LBJFF SCHOOL OF EDUCATION:** Students can arrange for an inter-college transfer (ICT) through an appointment with their academic advisor in their current degree-granting college.

**NOTE:** This document is intended to be a guide only and is subject to change without notice. Students should consult with their advisor regularly.